

VOLTAGE CONTROLLED OSCILLATOR COMPRISING AN INJECTION
PULLING COMPENSATION CIRCUIT

ABSTRACT

The present invention relates to a method for stabilising the operation of a voltage controlled oscillator (VCO) driven by a phase locked loop (PLL), the voltage controlled oscillator delivering an RF signal and receiving through at least one spurious path a harmonic component of a frequency equal or proximate to that of the RF signal, capable of disturbing its operation by injection pulling. According to the present invention, the method comprises a step of injecting into the voltage controlled oscillator an injection pulling compensation signal, the phase and the amplitude of which are adjusted so as to neutralise the effects of the spurious harmonic component. Application particularly to phase modulation IQ circuits in radiotelephony.

Fig. 1